

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMARK

Report Number: P969484

Luminaire Tested: **NAV-SB5D-835-U-RW**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P969484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: NAV-SB5D-835-U-RW
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(5) 80 CRI, 3500K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 50324.4 lumens
Efficiency: N/A
Efficacy: 137.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B5 - U0 - G5

Input Watts (W): 364.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

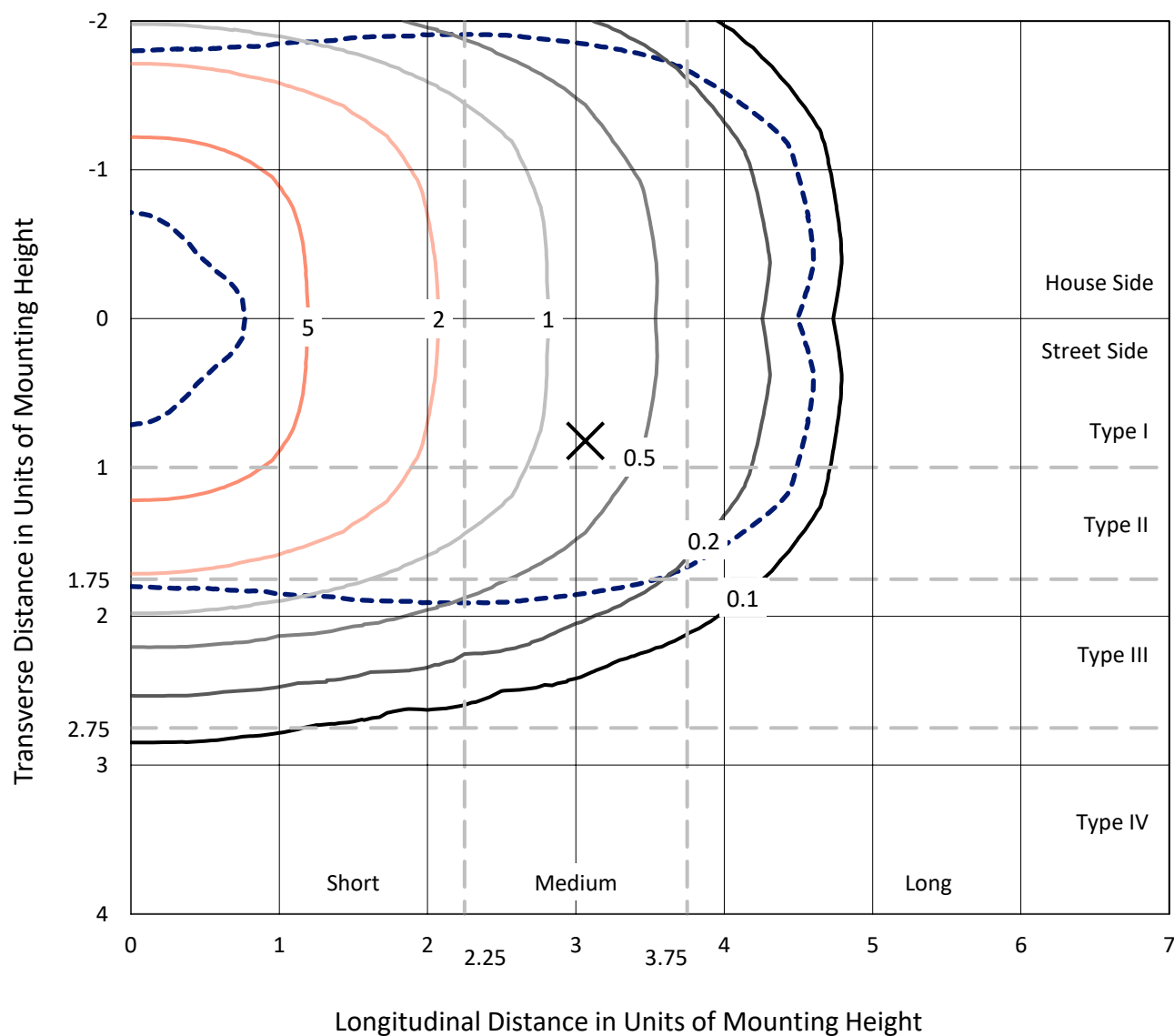


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

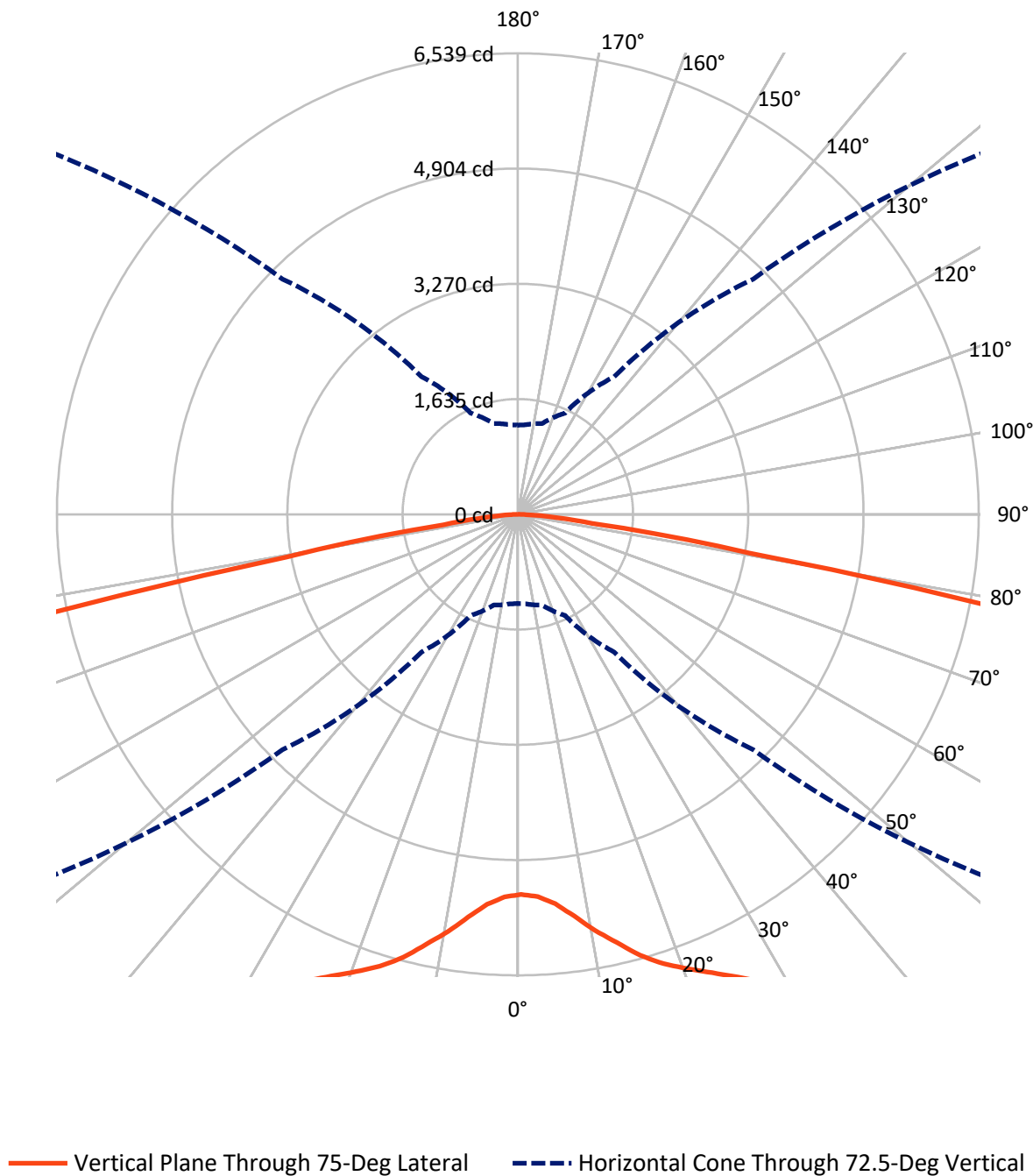


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



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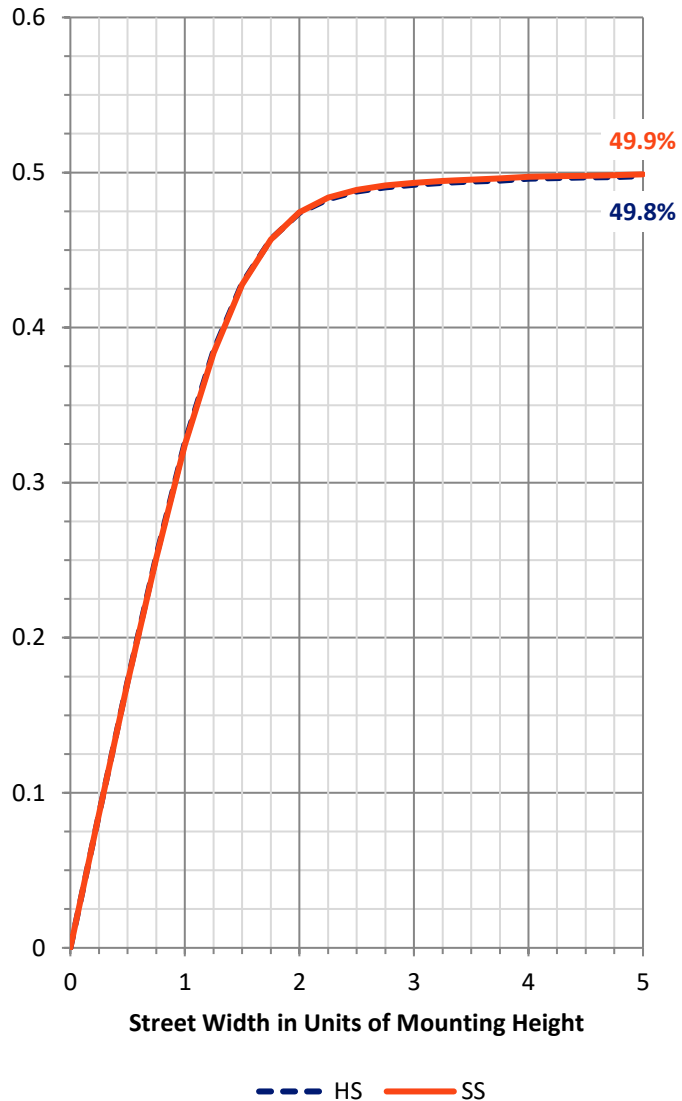
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	25162.2	0.0	25162.2
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	25162.2	0.0	25162.2
	% Fixture	50.0	0.0	50.0
Total	Lumens	50324.4	0.0	50324.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.1	1.0
10°-20°	1741.7	3.5
20°-30°	3365.4	6.7
30°-40°	5682.6	11.3
40°-50°	9012.0	17.9
50°-60°	12066.1	24.0
60°-70°	11483.0	22.8
70°-80°	5992.0	11.9
80°-90°	453.6	0.9
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	50324.4	100.0
0°-180°	50324.4	100.0

Coefficient of Utilization



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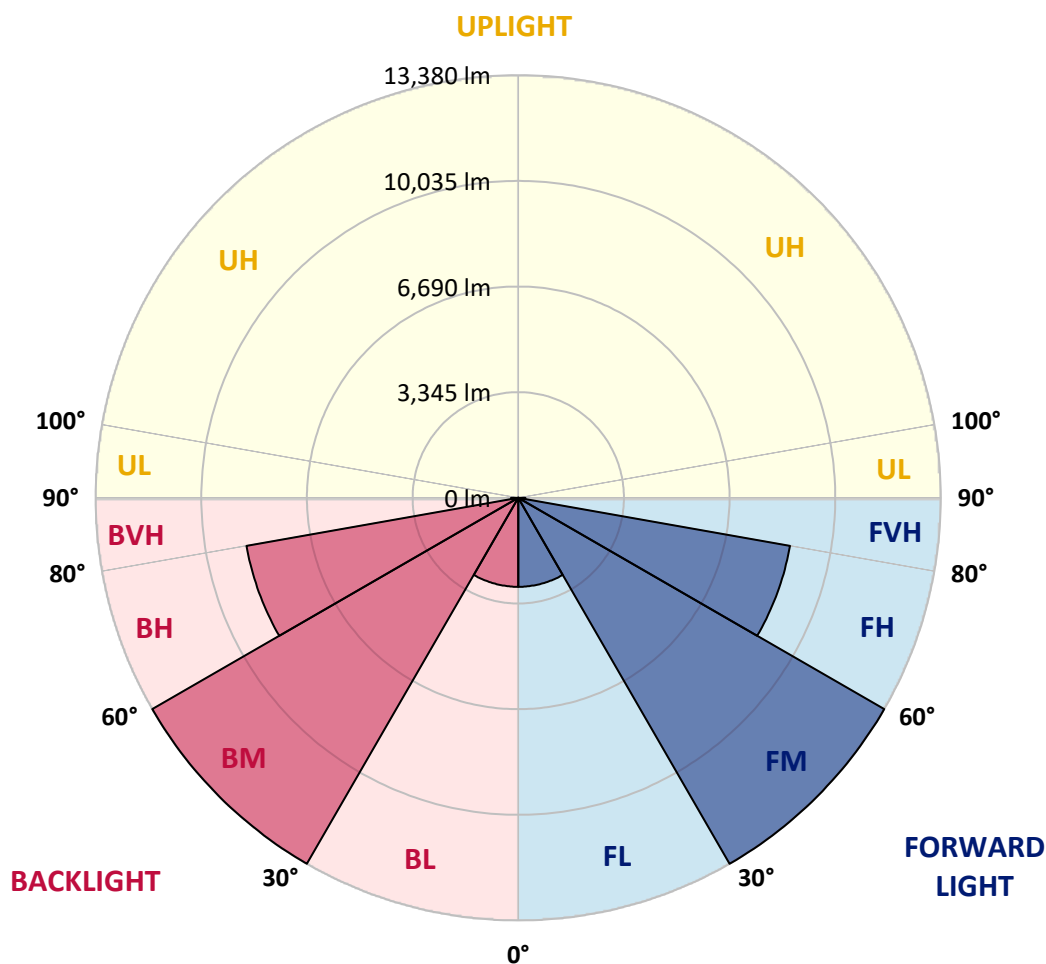
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2817.5	5.6			
FM	(30°-60°)	13380.4	26.6			
FH	(60°-80°)	8737.5	17.4			G4/12000
FVH	(80°-90°)	226.8	0.5			G3/500
BL	(0°-30°)	2817.5	5.6	B4/5000		
BM	(30°-60°)	13380.4	26.6	B5		
BH	(60°-80°)	8737.5	17.4	B5		G5
BVH	(80°-90°)	226.8	0.5			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type III Medium



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7	5390.7
2.5°	5390.7	5385.6	5390.7	5395.8	5393.2	5393.2	5406.1	5413.7	5429.2	5426.7	5424.1
5°	5354.7	5352.1	5372.6	5395.8	5413.7	5444.6	5483.1	5511.4	5547.4	5555.1	5555.1
7.5°	5336.7	5329.0	5365.0	5406.1	5462.6	5539.7	5614.2	5691.3	5752.9	5773.5	5778.6
10°	5349.6	5352.1	5400.9	5478.0	5567.9	5675.8	5781.2	5912.2	5999.6	6020.1	6040.7
12.5°	5408.6	5403.5	5485.7	5609.0	5732.4	5868.5	5991.8	6135.8	6230.9	6279.7	6300.3
15°	5516.5	5506.3	5621.9	5804.4	5984.2	6143.4	6243.7	6379.9	6490.4	6552.0	6575.2
17.5°	5645.0	5650.1	5801.7	6038.2	6274.5	6454.4	6549.4	6618.8	6703.6	6757.6	6783.2
20°	5871.1	5881.4	6051.0	6331.0	6600.8	6806.4	6883.5	6857.8	6880.9	6922.0	6952.9
22.5°	6174.3	6179.4	6369.6	6672.7	6955.4	7181.6	7232.9	7127.5	7063.4	7091.6	7112.2
25°	6526.4	6559.7	6749.8	7060.8	7351.1	7567.0	7590.0	7430.7	7271.5	7279.1	7292.1
27.5°	6955.4	6986.3	7179.0	7487.3	7782.8	7970.3	7967.7	7754.5	7520.7	7461.6	7479.6
30°	7420.5	7453.9	7651.7	7970.3	8245.3	8409.7	8373.7	8119.3	7785.4	7674.9	7687.7
32.5°	7973.0	7993.5	8193.8	8512.5	8766.8	8897.9	8823.4	8510.0	8093.7	7967.7	7998.6
35°	8641.0	8671.8	8820.8	9121.5	9345.0	9452.9	9327.0	8957.0	8489.4	8348.0	8368.6
37.5°	9404.1	9383.6	9553.1	9820.3	10005.3	10072.2	9900.0	9460.6	8941.6	8774.6	8805.4
40°	10200.6	10190.3	10375.4	10632.2	10732.5	10773.6	10519.2	10038.7	9463.2	9283.3	9342.5
42.5°	10922.6	10914.9	11164.1	11449.4	11570.1	11523.9	11202.6	10652.8	10067.0	9861.4	9912.9
45°	11500.7	11490.5	11796.2	12197.1	12433.5	12356.4	11924.6	11331.2	10678.6	10465.2	10514.0
47.5°	11945.2	11950.4	12279.3	12775.2	13188.9	13217.1	12662.1	12022.3	11351.7	11110.2	11182.1
50°	12266.4	12281.9	12633.8	13183.7	13748.9	13998.2	13415.0	12731.5	12048.1	11775.6	11857.9
52.5°	12346.0	12374.3	12798.3	13443.2	14108.7	14584.0	14180.7	13412.4	12708.4	12448.8	12515.7
55°	11922.1	11978.7	12515.7	13422.7	14329.7	14969.4	14853.8	14103.6	13373.8	13106.6	13181.1
57.5°	10948.3	11028.0	11654.9	12839.4	14280.8	15234.1	15375.4	14766.5	14039.3	13782.4	13841.5
60°	9584.0	9679.0	10280.2	11572.7	13592.2	15331.7	15742.9	15411.4	14650.8	14401.7	14455.6
62.5°	7525.9	7649.2	8368.6	9884.6	12137.9	14877.0	16056.3	15994.6	15200.7	14889.8	14925.7
65°	4828.0	4959.0	5716.9	7507.8	10198.0	13484.3	16154.0	16562.5	15781.4	15347.1	15401.1
67.5°	2911.2	2970.2	3345.4	4550.5	7453.9	11385.1	15326.6	17192.0	16459.8	15920.1	15961.2
70°	1862.8	1896.2	2119.8	2672.2	4213.9	8306.9	13276.2	17310.2	17281.9	16508.5	16503.4
72.5°	1264.1	1274.4	1333.5	1582.8	2384.5	4720.0	9792.0	15670.9	17795.8	17266.5	17184.3
75°	925.0	981.5	1076.6	1120.2	1354.1	2358.7	5611.6	11009.9	14997.7	15228.9	14668.9
77.5°	688.6	691.2	822.3	873.6	966.1	1256.4	2374.1	6146.1	9311.6	9776.7	8720.6
80°	583.2	552.5	549.8	704.1	727.1	783.7	1061.2	2122.4	3335.1	2022.1	1528.8
82.5°	485.6	452.2	408.6	549.8	495.9	480.5	459.9	863.4	1061.2	521.6	444.5
85°	339.2	323.8	308.3	359.7	282.6	241.5	221.0	403.4	447.1	221.0	195.3
87.5°	146.5	151.6	154.2	159.3	118.2	84.8	84.8	113.1	113.1	87.3	64.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)